



OPERATORS MANUAL 85 SERIES FOLDING ROW-CROP CULTIVATOR

OMN159546 G0 English

OMN159546 G0

LITHO IN THE U.S.A. (REVISED) ENGLISH





To the Purchaser

This new cultivator was carefully designed and manufactured to give years of dependable service. To keep it running efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need—whether it is operation, lubrication, or adjustments. Read the Table of Contents to learn where each section is located.

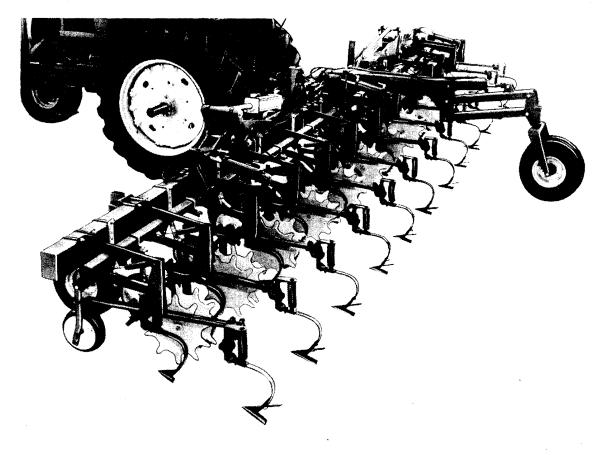
In addition to the equipment furnished with your cultivator, attachments are available to help you do a better job in special crop conditions. These are described in the attachments section of this manual and can be purchased from your John Deere dealer.

"Right-hand" and "left-hand" sides are determined by facing in the direction the cultivator will travel when in field use. Record your cultivator serial number in the space provided on page 76. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your cultivator requires replacement parts, go to your John Deere dealer where you can obtain genuine John Deere parts—accept no substitutes.

The warranty on this cultivator appears on your copy of the purchase order which you should have received from your dealer when you purchased the cultivator.

This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

Your operator's manual contains SI Metric Equivalents which follow immediately after the U.S. customary units of measurement.





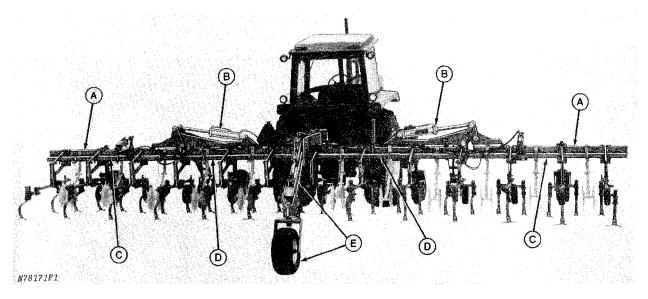
Contents

	Page
IDENTIFICATION VIEWS	3
SAFETY SUGGESTIONS	4-5
PREPARING FOR USE	6-12
Preparing tractor	
Preparing cultivator	
Attaching cultivator to tractor	
Leveling cultivator frame	
Detaching cultivator from tractor	
Storage	
Storage	
TRANSPORTING	
FIELD OPERATION AND ADJUSTMENTS	14-36
Rockshaft control and remote cylinder operating levers	
Frame gauge wheels	
Row spacing	
Depth control	
Positioning clamps, shanks, and crossarms	
Adjusting sweeps	
Adjusting rolling coulters	
Guide rod	
Rig-mounted shields.	
Hooded shields	
Rolling shields	
Down pressure springs	
Disk hillers	
Cold breaker	
Rotary hoe attachment	
Mounting tires	
Storage stands	
Lift assist wheel	
1 01 (Gaalat WUGG)	

2 Contents

CONTENTS—Continued

LUBRICATION	Page 4∩-41
LOBITION TON.	70 71
SWEEPS, SHOVELS, AND SHANKS	42-43
SHANKS AND SHARES	44-45
TOOL EQUIPMENT BEET, BEAN AND VEGETABLE CULTIVATION	46-47
ASSEMBLY	48-70
Main frame	
SMV emblem and safety reflectors	
Frame gauge wheels	
Coulters	
Rigs	
Crossarms and clamps	
Shanks and sweeps	
Clamp and beams	
Shanks and shares	
Rig gauge wheels	
Beet, bean and vegetable equipment	
18-Row Extension	
Split rockshaft lift attachment	
Lift assist wheel attachment	
Hydraulic hose diagrams	65-70
SPECIFICATIONS	71-76
Torque value chart	
Serial number	76

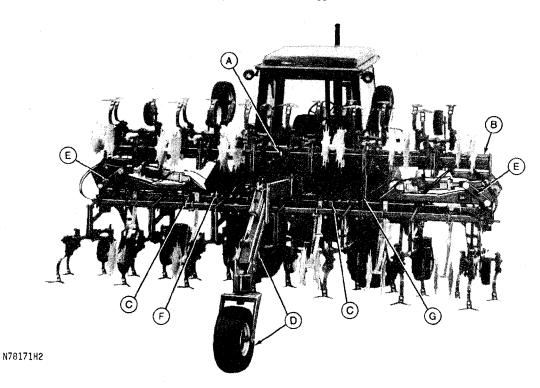


A-Outriggers
B-Outrigger Folding Cylinders

C—Outrigger Split Rockshaft D—Main Frame Split Rockshaft

E-Lift Assist Wheel

85 Series 12-Row Rear Mounted Folding Cultivator With Lift Assist Wheel and Split Rockshaft—Outriggers Lowered



A-Left-Hand Outrigger **B**—Right-Hand Outrigger

C-Main Frame D-Lift Assist Wheel

85 Series 12-Row Rear Mounted Folding Cultivator With Lift Assist Wheel and Split Rockshaft—Outriggers in Transport

E-Red Reflector F—SMV Emblem G—Outrigger Stop



Safety

Operate Safely

DO NOT operate cultivator without reading this operator's manual.

DO NOT allow anyone to ride on the cultivator when it is in motion. Observe operation only from the tractor platform.

Lower the cultivator when not in use.

Always shut off tractor engine and shift to "Park" when leaving tractor. Remove key when leaving tractor unattended.

Have the cultivator stationary and on level ground when raising or lowering outriggers.

DO NOT walk under outriggers when raising or lowering.

DO NOT raise or lower the outriggers when moving.

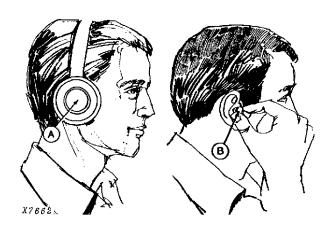
DO NOT operate close to a ditch or creek.

Slow down when turning.

Drive slowly over rough ground.

Apply both tractor brakes evenly when making emergency stops. Plan ahead.

Protect Against Noise



A—Earmuffs

B—Earplugs

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noises.

Avoid Fires

DO NOT refuel with the tractor engine running.

DO NOT smoke or use a lantern when refueling.

Transport Safely

DO NOT fail to latch the tractor brakes together.

Shift the tractor into a lower gear when transporting down steep slopes or hills.

Be aware of overhead wires and know the transport width of the cultivator.

Keep the SMV emblem and reflectors clean and visible from the rear.

Stop slowly.

When transporting the cultivator on a road or highway at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.

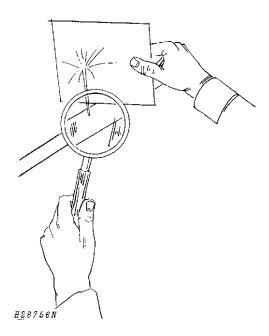
Practice Safe Maintenance

DO NOT lubricate, adjust, or clean the cultivator while it is in motion.

Always use a safety support when working on, under, or around the cultivator.

Shut off engine and remove key when working on cultivator.

When mounting a tire on a wheel or rim, failure to follow proper procedure can produce an explosion which can result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.



Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipe, and hoses are not damaged.

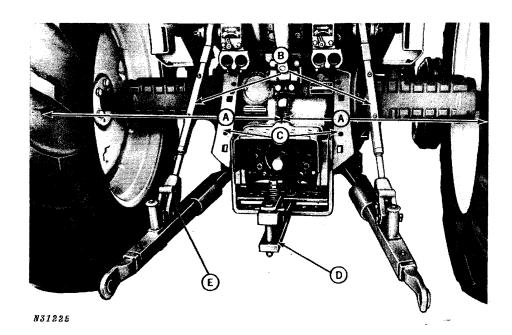
Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.

If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.



Preparing For Use

PREPARING THE TRACTOR



A—Center of Tractor to Center of Tire

B-Lift Links

Wheel Spacing

Set the tractor wheels for the desired row spacing so the wheels are centered between the rows. The dimension "A" from the center of the tractor to the center of each tire should be the same.

Tire Inflation

See your tractor operator's manual for correct tire inflation pressures and instructions for wheel ballast where required.

Sway Blocks

Place the sway blocks (C) in the upper wide setting as illustrated, to prevent cultivator side sway during transport. See your tractor operator's manual.

Drawbar Position

Place the drawbar (D) in the short position to provide maximum clearance between rear of drawbar and cultivator.

C—Sway Blocks

D—Drawbar

E-Lift Link Pin

Lift Links

Adjust length of lift links (B) to minimum length, being sure to maintain adequate clearance between tractor tires and toolbar cultivator components. See your tractor operator's manual.

Lift Link Lateral Float Adjustment

If frame gauge wheels are used, adjust lift link pins to allow lateral float.

If frame gauge wheels are not used, adjust lift link pins to prevent lateral float, as illustrated above.

See your tractor operator's manual.

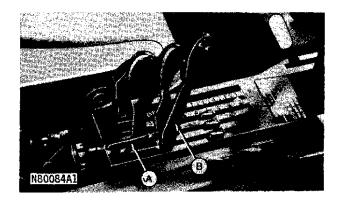
Rockshaft Selector Lever

Place rockshaft selector lever in the MIN, ZERO, or D position.

Metering Valve

Turn to "FAST" or "Rabbit" position.

Rockshaft Control and Remote Cylinder Operation



Lift Assist Wheel-Install lock clip (A) on middle lever.

Split Rockshaft Lift-Install lock clip on outer lever (B).

NOTE: Installation instructions in lever lock bundle. See pages 14-15 for field operation.

Tractor Rockshaft Cover

Be sure tractor rockshaft cover is as shown on page 61-63.

BALLAST INFORMATION

Tractor front end stability is necessary for safe and efficient operation. Install the proper amount of weight on the front of the tractor as recommended in your tractor operator's manual.

NOTE: Ballast recommendations provide for adequate transport stability at recommended speeds. Additional front ballast may be required for satisfactory field operation due to sudden or extreme forces on the tractor hitch, which may occur when removing the cultivator from the ground and turning at row ends, or during field transport over very rough ground.

IMPORTANT: To maintain proper steerability when lift assist wheel is used, maximum front end ballast is required.

Addition of integral sprayers (spray tanks and frame) provides additional weight which will offset some of the recommended front ballast.

Instructions

Step I-Find your cultivator model in the table on next page and enter its Implement Code on Line 1 below.

Step II-Enter an Implement Code for each attachment or option used on your cultivator, on Line 2 below.

Step III-Add Implement Code of cultivator and Implement Code(s) for each attachment used to obtain the Total Implement Code.

Step IV-Refer to tractor operator's manual to determine required tractor front ballast.

IMPORTANT: Refer to tractor operator's manu-1. If the total implement code exceeds the maximum implement code listed for a particular tractor model, the implement-attachment combination is not recommended for that tractor. The total load on any tractor wheel due to the weight of the implement-attachment combination and tractor equipment, should not exceed the carrying capacity of the tractor tires. See your tractor operator's manual.

Li	ine 1 .		
Li	ine 2		
		<u></u>	
	-		
			
	-		
Total Implement Code	-		

NOTE: If the total implement code exceeds the highest number listed in the tractor operator's manual. the lift assist wheel attachment may allow the use of the implement on the tractor.

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